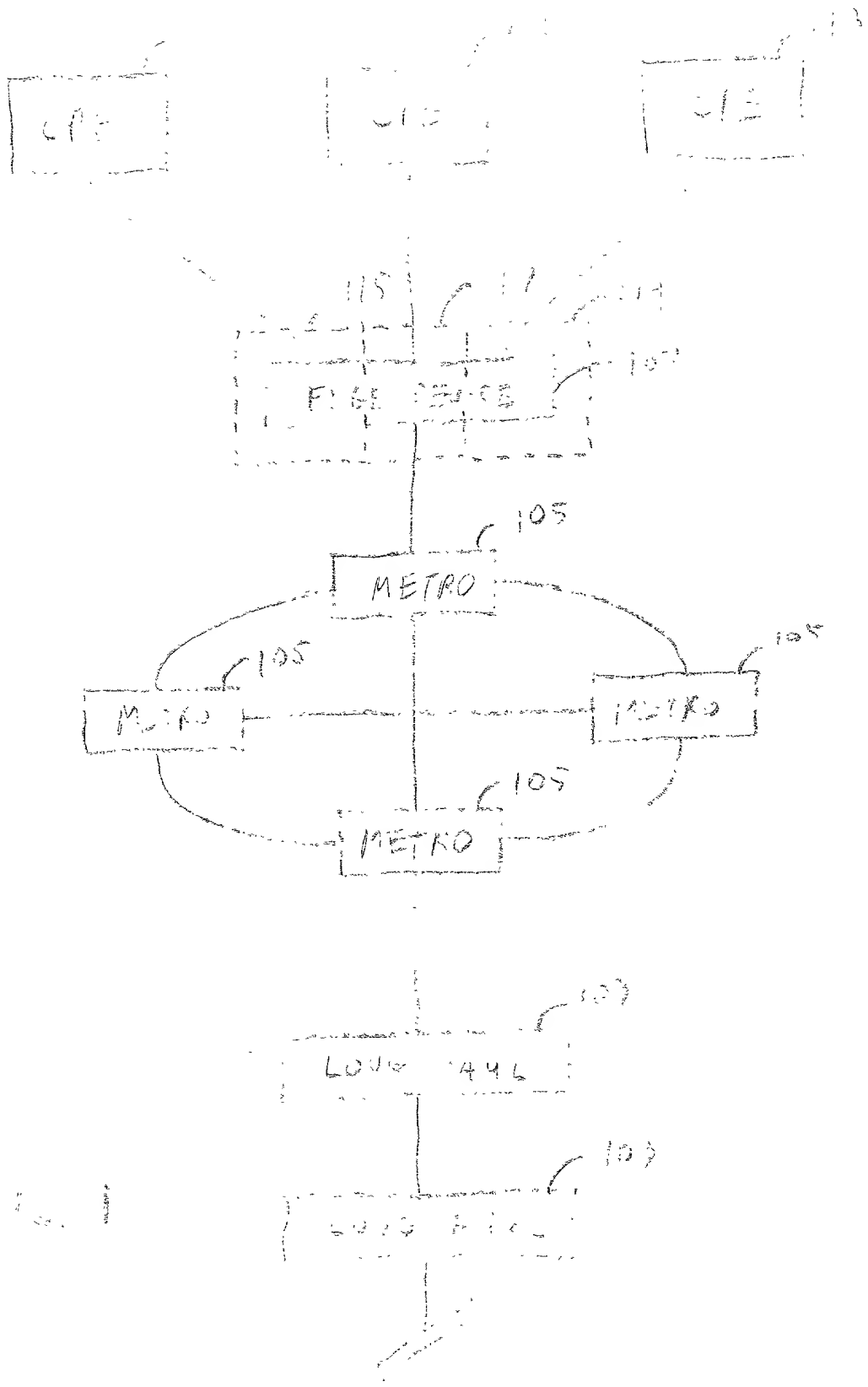


090203073101



TOP SECRET

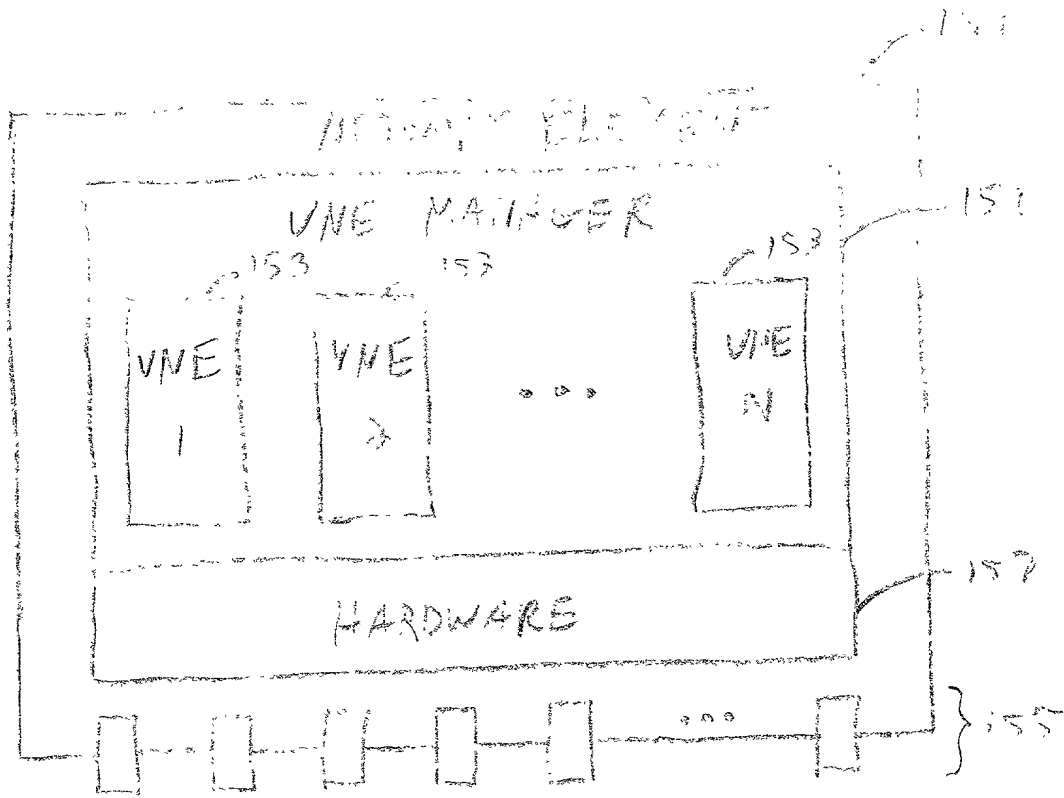


FIG. 2

http://physical.wisc.edu/

203
[] UP: ID [] VME [] App. 1000

207
[] % CPU [] % Memory ([] Mb)

211 {
○ P1 ○ P2 ○ P3 ○ P4 ○ P5 ... ○ P11

OK

RT JUPITER
ACTIVE FILE

215 {
45% CPU 37% Memory
○ P1 ○ P2 ○ P3 ○ P4 ○ P5 ... ○ P11

FIG. 3A

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Virtual Network Element Manager

VNE Management

Resource Usage

Create VNE

Resource Utilization by VNEs

Memory: 0%

CPU: 0%

	Port	Status
1		Not in Use
2		Not in Use
3		Not in Use
4		Not in Use
5		Not in Use
6		Not in Use
7		Not in Use
8		Not in Use
9		Not in Use

FIG. 4A

Virtual Network Element Manager

VNE Management

Resource Usage

Create VNE

VNE ID

Application Binary

Memory Allocation

CPU Allocation

Port

Status

Create

Reset

00000000

VirtualNetwork Element Manager

VNE Management

VNE 1

Application Binary: QoS Bin

Memory: 20%

CPU: 40%

Port	Status
1	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>
8	<input type="checkbox"/>
9	<input type="checkbox"/>

Virtual Network Element Manager

VNE Management

VNE 1

Resource Usage

Create VNE

VNE ID

VNE 2

Application Binary

Experimental.bin

Memory Allocation

CPU Allocation

Port	Status
5	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>
9	<input type="checkbox"/>

Create

Reset

Fig. 3.3

Virtual Network Element Manager

VNE Management **VNE 1** **VNE 2**

Application Binary:

Memory:

CPU:

Experimentation

Port	Status
1	<input type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>
9	<input type="checkbox"/>

Fig. 11

Virtual Network Element Manager

VNE Management

Resource Usage

Create VNE

VNE 1

VNE 2

Resource Utilization by 2 VNEs

Memory:

CPU:

	Port	Status
1	VNE 1	
2	VNE 1	
3	VNE 1	
4	VNE 1	
5	VNE 2	
6	VNE 2	
7	VNE 2	
8	VNE 2	
9	Not In Use	

Fig. 10

09920268-073101

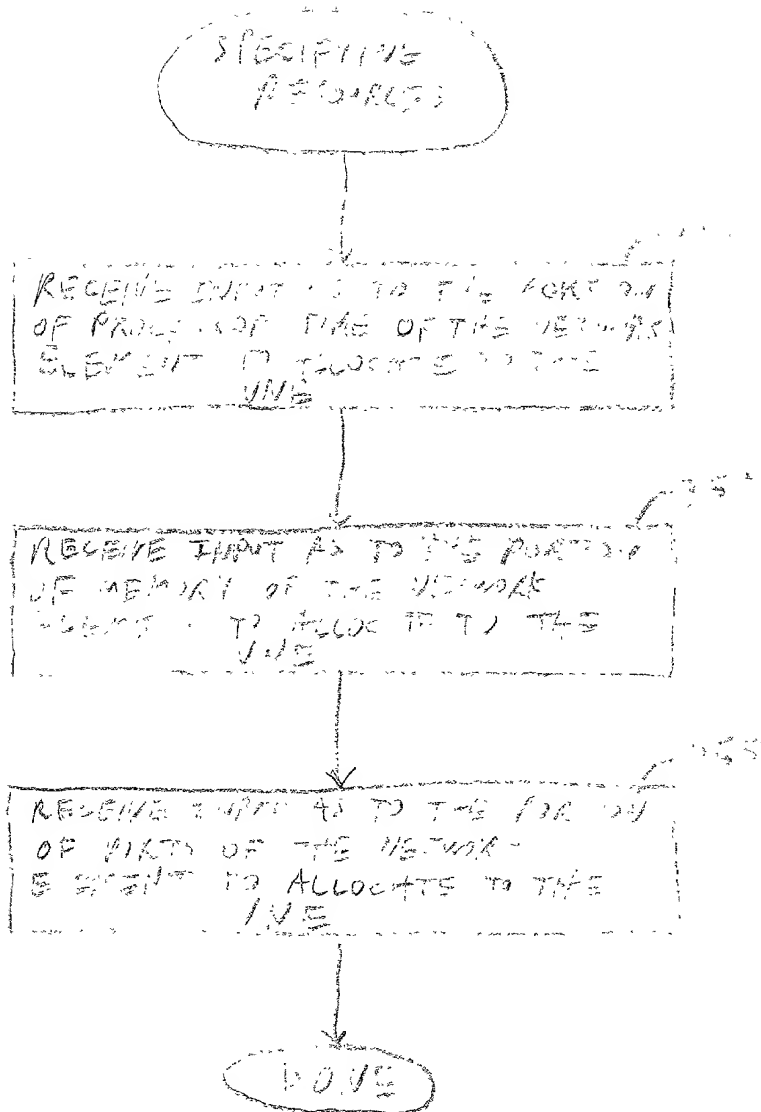


Fig. 3

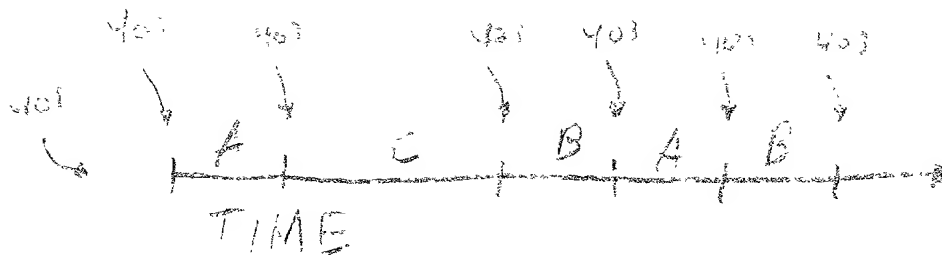


FIG. 7

0992068-073101

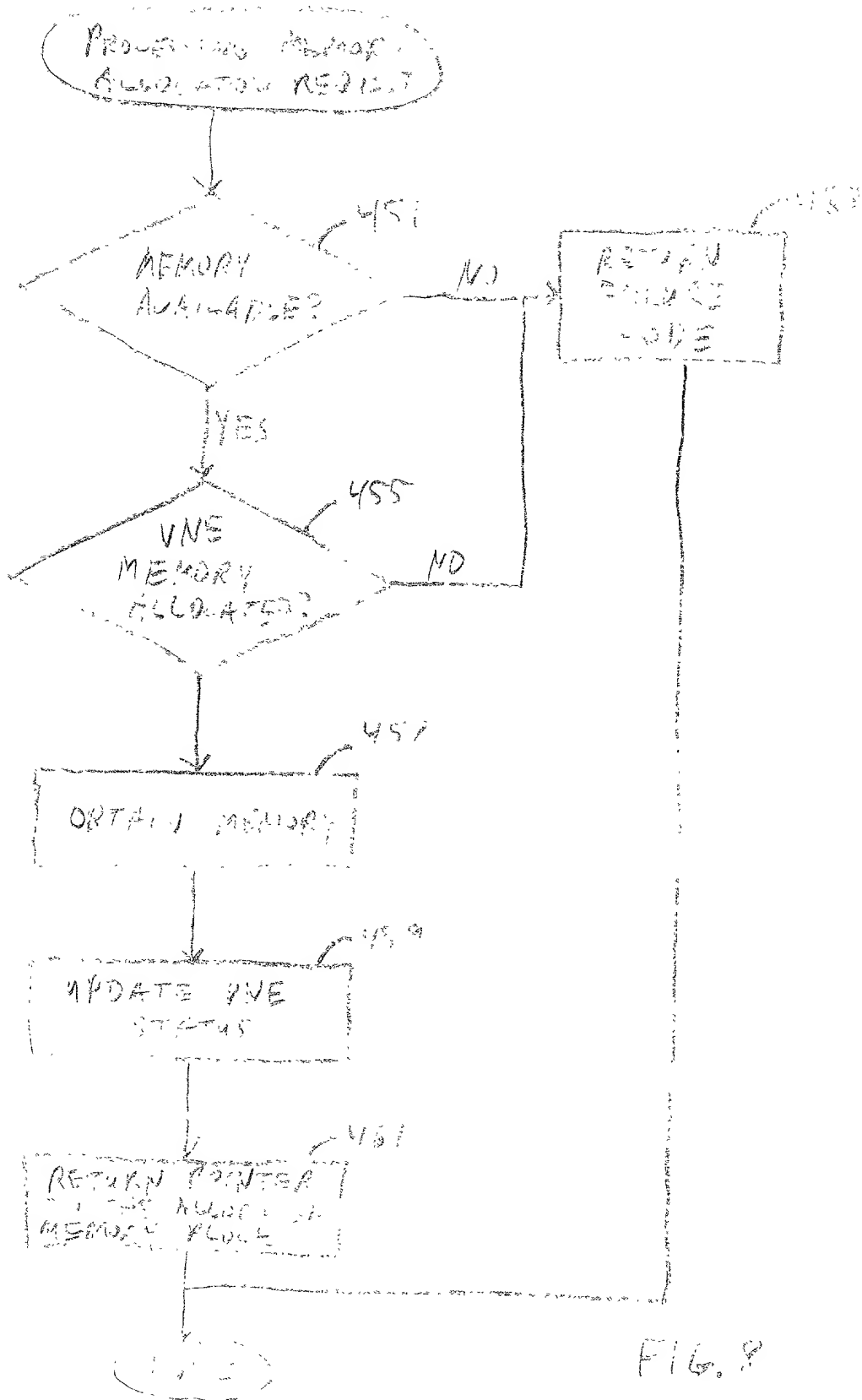


FIG. 8

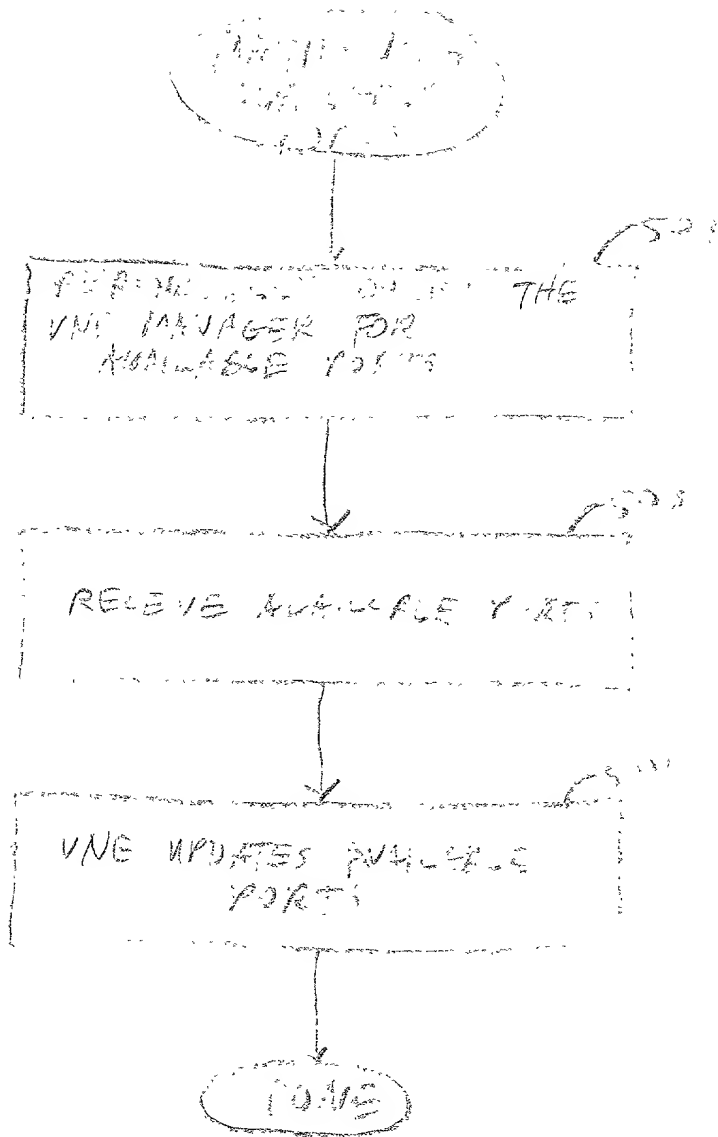


FIG. 9